

#14 3x²(4x³ - 2x² + 5x + 2) =
 1p = ~~12~~x⁵ - 6x⁴ + 15x³ + 6x²

#20 (2x + 3)(x³ - 5x² + 4) =
 2p = 2x⁴ - 10x³ + 8x + 3x³ - 15x² + 12 =
 = 2x⁴ - 7x³ - 15x² + 8x + 12

#22 (x - 4)(2x³ - 3x² + 2) =
 2p = 2x⁴ - 3x³ + 2x - 8x³ + 12x² - 8 =
 = 2x⁴ - 11x³ + 12x² + 2x - 8

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#36 x³ - 10x² + 24x = x(x² - 10x + 24) =
 3p = x(x - 6)(x - 4) {(-6)(-4) = 24; -6 + -4 = -10}

#44 x³ + 3x² - x - 3 = x²(x + 3) + 1(x + 3) =
 4p = (x + 3)(x² - 1) = (x + 3)(x - 1)(x + 1)

#48 x³ + 2x² + 14x + 7x² = x²(x + 2) +
 4p + 7x(2 + x) = (x + 2)(x² + 7x) =
 = x(x + 2)(x + 7)